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**From:** Sheldrake, Sean [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D16E2780A4094BBA82DAAA5283A71572-SHELDRAKE, SEAN]  
**Sent:** 8/4/2020 12:01:22 AM  
**To:** Carlson, Daniel J CIV USARMY CENWS (USA) [Daniel.J.Carlson@usace.army.mil]; christine.m.budai@usace.army.mil; kenneth.d.duncan@usace.army.mil; Gardiner, William W CIV USARMY CENWS (USA) [William.W.Gardiner@usace.army.mil]; Johnson, Craig J CIV (USA) [Craig.J.Johnson@usace.army.mil]; Kerns, Kristen M CIV USARMY CENWS (USA) [Kristen.Kerns@usace.army.mil]; jeffrey.t.matson@usace.army.mil; McBain, Melissa A CIV (USA) [Melissa.A.Mcbain@usace.army.mil]; Scheidt, Kristin M CIV USARMY CENWP (USA) [Kristin.M.Scheidt@usace.army.mil]; Suess, Alison M CIV USARMY CENWS (US) [Alison.M.Suess@usace.army.mil]; Richwine, Kathryn A CIV (USA) [Kathryn.A.Richwine@usace.army.mil]; Barajas, Alexander CIV USARMY CENWP (USA) [Alexander.Barajas@usace.army.mil]; Henon, Jeffrey M CIV USARMY CENWP (USA) [Jeffrey.M.Henon@usace.army.mil]; Royer, Ida M CIV USARMY CENWP (USA) [Ida.M.Royer@usace.army.mil]; abchang@bpa.gov; Jeremy\_Buck@fws.gov; Soscia, Mary Lou [Soscia.Marylou@epa.gov]; jeff.fisher@noaa.gov; david.g.farrer@state.or.us; Heidi Nelson (DEQ [Heidi.NELSON@state.or.us]; peterson.jenn@deq.state.or.us; poulsen.mike@deq.state.or.us; Bob Schwarz [Bob.SCHWARZ@state.or.us]; todd.hudson@state.or.us; Smith, Andrew (ECY) [ansm461@ECY.WA.GOV]; dave.mcbride@doh.wa.gov; Abbett, Marian L. (ECY) [MABB461@ECY.WA.GOV]; brandy.humphreys@grandronde.org; holly.partridge@grandronde.org; jackb@nezperce.org; Marissa Merker [marissam@nezperce.org]; dexb@yakamafish-nsn.gov; lonr@yakamafish-nsn.gov; shil@yakamafish-nsn.gov; bill@ridolfi.com; tim.outman@ctwsbnr.org  
**CC:** Mednick, Richard [Mednick.Richard@epa.gov]  
**Subject:** RE: Clam QAPP and Bass/Crayfish QAPP for TAG review-EPA comments (sf)  
**Attachments:** Clam QAPP Draft with Appendices\_26June2020.pdf; Bass and Crayfish QAPP Draft w appendices\_26Jun2020.pdf; Clam crayfish SMB QAPP 8 3 20.pdf

Hello Dan, Chris and everyone,

Please see the attached EPA comments on the subject documents.

Let me know if you have any questions.

Thank you.

S

Sean Sheldrake  
U.S. Environmental Protection Agency  
RPM, HSPC, Superfund and Emergency Management Division  
Unit Diving Officer, Training Director, Laboratory Services and Applied Sciences Division  
1200 Sixth Avenue, Suite 155, M/S DOC-01  
Seattle, WA 98101  
206.553.1220 desk  
206.225.6528 cell  
<https://www.epa.gov/scientific-diving>  
<https://www.facebook.com/EPADivers>

-----Original Message-----

From: Carlson, Daniel J CIV USARMY CENWS (USA) <Daniel.J.Carlson@usace.army.mil>  
Sent: Wednesday, July 1, 2020 4:53 PM  
To: christine.m.budai@usace.army.mil; kenneth.d.duncan@usace.army.mil; Gardiner, William W CIV USARMY CENWS (USA) <William.W.Gardiner@usace.army.mil>; Johnson, Craig J CIV (USA) <Craig.J.Johnson@usace.army.mil>; Kerns, Kristen M CIV USARMY CENWS (USA) <Kristen.Kerns@usace.army.mil>; jeffrey.t.matson@usace.army.mil; McBain, Melissa A CIV (USA) <Melissa.A.Mcbain@usace.army.mil>; Scheidt, Kristin M CIV USARMY CENWP (USA) <Kristin.M.Scheidt@usace.army.mil>; Suess, Alison M CIV USARMY CENWS (US) <Alison.M.Suess@usace.army.mil>; Richwine, Kathryn A CIV (USA) <Kathryn.A.Richwine@usace.army.mil>; Carlson, Daniel J CIV USARMY CENWS (USA) <Daniel.J.Carlson@usace.army.mil>; Barajas, Alexander CIV USARMY CENWP (USA) <Alexander.Barajas@usace.army.mil>; Henon, Jeffrey M CIV USARMY CENWP (USA) <Jeffrey.M.Henon@usace.army.mil>; Royer, Ida M CIV USARMY CENWP (USA) <Ida.M.Royer@usace.army.mil>; abchang@bpa.gov; Jeremy\_Buck@fws.gov; Soscia, Mary Lou <Soscia.Marylou@epa.gov>; Sheldrake, Sean <sheldrake.sean@epa.gov>; jeff.fisher@noaa.gov; david.g.farrer@state.or.us; Heidi Nelson (DEQ <Heidi.NELSON@state.or.us>; peterson.jenn@deq.state.or.us; poulsen.mike@deq.state.or.us; Bob Schwarz <Bob.SCHWARZ@state.or.us>; todd.hudson@state.or.us; Smith, Andrew (ECY) <ansm461@ECY.WA.GOV>; dave.mcbride@doh.wa.gov; Abbett, Marian L. (ECY) <MABB461@ECY.WA.GOV>; brandy.humphreys@grandronde.org; holly.partridge@grandronde.org; jackb@nezperce.org; Marissa Merker <marissam@nezperce.org>;

dexb@yakamafish-nsn.gov; lonr@yakamafish-nsn.gov; shil@yakamafish-nsn.gov; bill@ridolfi.com;  
tim.outman@ctwsbnr.org  
Subject: Clam QAPP and Bass/Crayfish QAPP for TAG review

Hello all,

Attached are two QAPPs for review and comment by the TAG, the Bradford Island River OU QAPP for clam sampling and a second QAPP for bass and crayfish sampling.

Several tables still have 'TBD' in places. We are still coordinating with the lab to get this information filled in, and can provide updates via email as needed.

The statistical appendix is not included in this version of the draft bass and crayfish QAPP. We are still working to finalize the analysis and will provide it separately at a later date in July.

These versions of the draft QAPPs tried to incorporate feedback we received from the TAG during the May and June meetings to discuss the sampling approach for clams, bass, and crayfish. If there is anything mentioned during the previous TAG meetings that was omitted from these draft versions, please feel free to restate the recommendation in your review comments so that we can keep track of those recommendations.

We appreciate the recent feedback regarding the proposal to forego bass collection in the reference area in order to concentrate efforts in the forebay and near Bradford Island. At this time, USACE sees considerable value in collecting reference area samples for bass, in order to aid in the interpretation of results and provide context for data coming from the forebay and Bradford Island in the event that system wide changes have occurred since the previous collection in 2011. However, we want to discuss some options for trying to increase our level of effort to collect bass in the forebay and at Bradford Island, for making sure everyone's respective objectives for the study are met. We will schedule a conference call in the coming weeks to discuss as a group.

Please provide written comments to USACE on both QAPPs prior to July 31st. We will then work to revise and finalize the QAPP before fieldwork begins.

Best regards,

Daniel Carlson  
Physical Scientist  
U.S. Army Corps of Engineers, Seattle District  
Office: (206) 764-6899  
Cell: Ex. 6 Personal Privacy (PP)